

Special Issue

Microfluidic Devices for Biosensing

Message from the Guest Editors

We cordially invite you to submit a paper to this Special Issue of *Micromachines* entitled "Microfluidic Devices for Biosensing". The field of microfluidics can be quite broad, with multiple applications of the science and technology behind it. However, no matter the application, they all share the need for manipulating micro to picoliters of fluids. This has been particularly important for the field of sensors, and more specifically for biosensors and biodetection, which have taken microfluidics as an essential component to the developments towards lab-on-a-chip, point-of-care (POC), and organ-on-a-chip concepts. This Special Issue aims to cover all aspects of fabrication of microfluidic-based devices, using all sorts of technologies, from conventional PDMS or paper-based devices to more modern additive manufacturing technologies for their application in biosensing. This Special Issue is particularly focused on applications in biodetection and biosensors but also on related areas for the development of a new generation of microfluidic devices such as valves, cryogeny, micro and nanodroplets generation, computing, etc.

Guest Editors

Dr. Hugo Aguas

Department of Materials Science, Faculty of Science and Technology,
New University of Lisbon and CEMOP/UNINOVA, 2829-516 Caparica,
Portugal

Dr. Sara Abalde-Cela

Department of Life Sciences, Medical Devices Group International
Iberian Nanotechnology Laboratory (INL), Avda Mestre José Veiga s/n,
4715-330 Braga, Portugal

Deadline for manuscript submissions

closed (31 July 2020)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/30042

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
micromachines](https://mdpi.com/journal/micromachines)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).